

# INDEX TO VOLUME VII

	<small>PAGE</small>
BATCHELOR, G. K. The Skin Friction on Infinite Cylinders moving parallel to their Length . . . . .	179
— and PROUDMAN, I. The Effect of Rapid Distortion of a Fluid in Turbulent Motion . . . . .	83
CHAMBERS, I. G. An Approximate Method for the Calculation of Propagation Constants for Inhomogeneously Filled Wave-guides . . . . .	299
CHATTERJI, P. P., see NIGAM, S. D.	
CHESTER, W. The Diffraction and Reflection of Shock Waves . . . . .	57
— Unsteady Compressible Flow in Ducts . . . . .	247
CLARKSON, M. H. A Second-order Theory for Three-dimensional Wings in Supersonic Flow . . . . .	203
CRAGGS, J. W. Characteristic Surfaces in Ideal Plasticity in Three Dimensions . . . . .	35
CURTIS, G. C. Nomograms for the Solution of the Sound-ranging Problem in a Plane . . . . .	129
DAVIES, D. R. On Diffusion from a Continuous Point Source at Ground Level into a Turbulent Atmosphere . . . . .	168
— On the Problem of Diffusion from an Instantaneous Point Source released at Ground Level into a Turbulent Atmosphere . . . . .	462
— The Problem of Diffusion into a Turbulent Boundary Layer from a Plane Area Source, bounded by Two Straight Perpendicular Edges . . . . .	468
DEAN, W. R. Note on the Motion of an Infinite Cylinder in Rotating Viscous Liquid . . . . .	257
DUNCAN, W. J. A Kinematic Property of the Articulated Quadrilateral . . . . .	222
— Projective Relations in Plane Kinematics . . . . .	352
FOX, L. A Note on the Numerical Integration of First-order Differential Equations . . . . .	367
GILLIES, A. W. On the Transformations of Singularities and Limit Cycles of the Variational Equations of van der Pol . . . . .	152
HARDIMAN, N. J. Elliptic Elastic Inclusion in an Infinite Elastic Plate . . . . .	226
HOLT, M. A Vortical Singularity in Conical Flow . . . . .	438
HORNE, M. R. The Flexural-Torsional Buckling of Members of Symmetrical I-Section under Combined Thrust and Unequal Terminal Moments . . . . .	410
ILLINGWORTH, C. R. The Effect of Heat Transfer on the Separation of a Compressible Laminar Boundary Layer . . . . .	8
IRMAY, S. Dynamic Behaviour of Linear Rheological Bodies under Periodic Stresses . . . . .	399
JEFFREYS, H. What is Hamilton's Principle ? . . . . .	335
LAWDEN, D. F. Stationary Rocket Trajectories . . . . .	488
MANWELL, A. R. The Variation of Compressible Flows . . . . .	40
MILLINGTON, G. A Note on the Solution of the Sextic Equation . . . . .	357
MISHKIN, E. Theory of the Squirrel-cage Induction Machine derived directly from Maxwell's Field Equations . . . . .	472

	PAGE
MITCHELL, L. H. A Fourier Integral Solution for the Stresses in a Semi-infinite Strip	51
NIGAM, S. D., and CHATTERJI, P. P. Hydrodynamical Equations for the Motion of Bodies of Revolution in Non-viscous Rotating Liquid	458
→ PAPADOPOULOS, V. M. Propagation of Electromagnetic Waves in Cylindrical Wave-guides with Imperfectly Conducting Walls	326
→ PARS, L. A. Variation Principles in Dynamics	338
PAYNE, L. E. A Note on a Paper by Davies and Walters on 'The Effect of Finite Width of Area on the Rate of Evaporation into a Turbulent Atmosphere'	283
PEARSON, J. D. A Contribution to the Theory of Right-angled Junctions in Wave-Guides	194
PROUDMAN, I., see BACHELOR, G. K.	
RADENKOVIĆ, D. Bending of a Curved Bar in its own Plane	385
ROTHMAN, M. Tables of the Integrals and Differential Coefficients of $Gi(+x)$ and $Hi(-x)$	379
— The Problem of an Infinite Plate under an Inclined Loading, with Tables of the Integrals of $Ai(\pm x)$ and $Bi(\pm x)$	1
SHIPMAN, J. S., see STERNBERG, R. L.	
STERNBERG, R. L., SHIPMAN, J. S., and THURSTON, W. B. Tables of Bennett Functions for the Two-frequency Modulation Product Problem for the Half-wave Linear Rectifier	505
STEVENS, G. W. H. (Corrigendum): The Stability of a Compressed Elastic Ring and of a Flexible Heavy Structure spread by a System of Elastic Rings	128
STEWARTSON, K. On the Free Motion of an Ellipsoid in a Rotating Fluid	231
STUART, J. T. On the Effects of Uniform Suction on the Steady Flow due to a Rotating Disk	446
THURSTON, W. B., see STERNBERG, R. L.	
TOWNSEND, A. A. The Uniform Distortion of Homogeneous Turbulence	104
TRANTER, C. J. A Further Note on Dual Integral Equations and an Application to the Diffraction of Electromagnetic Waves	317
URSELL, F. Water Waves generated by Oscillating Bodies	427
VAN TUYL, A. Note on the Paper 'Two-dimensional Plastic Stress Systems with Isometric Principal Stress Trajectories' (van Tuyl)	193
WOODS, L. C. Compressible Subsonic Flow in Two-dimensional Channels with Mixed Boundary Conditions	263
YOUNG, A. Techniques for the Summation of Products on Hollerith and National Accounting Machines	136
YU, YI-YUAN. Torsion of a Semi-infinite Body and a Large Thick Plate	287

